

Message Text

UNCLASSIFIED

PAGE 01 TOKYO 00044 01 OF 02 040650Z

ACTION OES-06

INFO OCT-01 EUR-12 EA-09 IO-13 ISO-00 AGRE-00 COME-00
HEW-06 HUD-02 DOTE-00 ERDA-07 EPA-04 NASA-02 NSF-02
CEQ-01 FEA-01 AID-05 CEA-01 CIAE-00 CIEP-02 DODE-00
EB-07 FPC-01 H-02 INR-07 INT-05 L-03 NSAE-00 NSC-05
OMB-01 PM-04 USIA-15 SP-02 SS-15 STR-04 TRSE-00
ACDA-10 PA-02 PRS-01 /158 W
-----040704Z 063433 /15

R 040640Z JAN 77

FM AMEMBASSY TOKYO
TO SECSTATE WASHDC 4513
INFO AMEMBASSY BONN
AMEMBASSY LONDON
AMEMBASSY MOSCOW
AMEMBASSY OTTAWA
AMEMBASSY PARIS
AMEMBASSY ROME
AMEMBASSY STOCKHOLM
USMISSION OECD PARIS
UNESCO PARIS
USMISSION IAEA VIENNA
USUN NEW YORK 2307
AMCONSUL OSAKA KOBE
AMCONSUL FUKUOKA
AMCONSUL SAPPORO
AMCONSUL NAHA

UNCLAS SECTION 1 OF 2 TOKYO 0044

FOR OES

DEPT PASS TO USDA, USDOC, DHEW, DHUD, DOT, ERDA, EPA, NASA, NSF.

E.O. 11652: N/A

TAGS: TGEN, JA

SUBJECT: JAPAN'S R&D EXPENDITURE FOR JFY 1975

UNCLASSIFIED

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PAGE 02 TOKYO 00044 01 OF 02 040650Z

GQM SUMMARY: THE PROLONGED BUSINESS RECESSION WAS LARGELY
RESPONSIBLE FOR THE LEVELING OFF OF JAPAN'S SPENDING IN RESEARCH
AND DEVELOPMENT (R&D) SINCE 1972, ACCORDING TO ANNUAL SURVEY ON
R&D EXPENDITURE AND RESEARCH MANPOWER UNDERTAKEN BY STATISTICS BUREAU
OF PRIME MINISTER'S OFFICE. REPORT ON THE SURVEY PUBLISHED DEC. 13
ALSO NOTED THAT JAPAN'S R&D EXPENDITURE FOR JFY 1975 (APR. 1975 -

MAR. 1976), TOTALING APPROX. DOLLAR 10 BILLION, ACCOUNTED FOR 1.76 PERCENT OF GNP, A RATIO MUCH LOWER THAN AMERICA'S 2.29 PER CENT, UK'S 2.11 PERCENT, AND WEST GERMANY'S 2.42 PERCENT. RESEARCH MANPOWER TOTALED 656,000 AS OF APRIL GQN 1976, SHOWING NO CHANGE FROM PREVIOUS YEAR'S FIGURE. END SUMMARY.

2. FOLLOWING ARE SALIENT POINTS OF REPORT:

3. JAPAN'S R&D EXPENDITURE FOR JFY 1975 AMOUNTED TO YEN 2,979 BILLION (APPROX DOLLAR 10 BILLION), AN INCREASE OF 10 PER CENT OVER JFY 1974. RATE OF INCREASE, HOWEVER, WAS MUCH LOWER THAN PREVIOUS YEAR'S 23 PER CENT. MAJOR FACTOR RESPONSIBLE FOR THE LEVELING OFF OF R&D SPENDING SINCE 1972 WAS PROLONGED BUSINESS RECESSION.

4. OF THE TOTAL, YEN 2,626 BILLION WAS EXPENDED ON R&D ACTIVITIES IN THE NATURAL SCIENCES AND ENGINEERING FIELDS. AMOUNT REPRESENTED AN INCREASE OF 8.5 PERCENT OVER PREVIOUS YEAR. IT ACCOUNTED FOR 1.8 PER CENT OF GROSS NATIONAL PRODUCT AND 2.1 PERCENT OF NATIONAL INCOME. THESE RATIOS REMAINED ALMOST UNCHANGED COMPARED WITH PREVIOUS YEAR'S.

5. PRIVATE INDUSTRY ACCOUNTED FOR 57 PERCENT, UNIVERSITIES AND COLLEGES 28 PER CENT, AND RESEARCH LABORATORIES 15 PERCENT OF TOTAL R&D EXPENDITURE.

6. PRIVATE INDUSTRY'S SHARE OF R&D SPENDING WAS 70 PERCENT AND THAT OF NATIONAL AND LOCAL GOVERNMENTS 30 PERCENT.

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PAGE 03 TOKYO 00044 01 OF 02 040650Z

7. SALARIES AND WAGES ACCOUNTED FOR 54.7 PERCENT, OFFICE EXPENSES, BOOKS, ETC. 16.8 PERCENT, PROCUREMENT OF TANGIBLE FIXED ASSETS 16.2 PERCENT, AND RAW MATERIALS 12.2 PERCENT OF TOTAL R&D EXPENDITURE.

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PAGE 01 TOKYO 00044 02 OF 02 040659Z
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FM AMEMBASSY TOKYO

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INFO AMEMBASSY BONN

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USUN NEW YORK 2308

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UNCLAS SECTION 2 OF 2 TOKYO 0044

8. R&D EXPENDITURE FOR SPACE ACTIVITIES INCREASED BY 51 PERCENT, WHILE THAT FOR MARINE SCIENCE AND TECHNOLOGY DECREASED BY 1 PERCENT. NUCLEAR ENERGY R&D EXPENDITURE STOOD AT YEN 95.5 BILLION, AN INCREASE OF 6 PERCENT; SPACE YEN 73.1 BILLION, MARINE SCIENCE AND TECHNOLOGY YEN 15.7 BILLION, INFORMATION PROCESSING YEN 103.4 BILLION, AN INCREASE OF 13 PERCENT, ENVIRONMENTAL PROTECTION YEN 108.3 BILLION, AN UNCLASSIFIED

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PAGE 02 TOKYO 00044 02 OF 02 040659Z

INCREASE OF 15 PERCENT.

9. NUMBER OF RESEARCH AND DEVELOPMENT PERSONNEL TOTALED 656,000 AS OF APRIL 1, 1976. OF THIS TOTAL, 525,000 WERE IN THE NATURAL SCIENCE AND ENGINEERING FIELDS. INCLUDED IN THE TOTAL WERE 404,000 RESEARCHERS (A RESEARCHER IS DEFINED IN REPORT AS A PERSON WHO COMPLETED UNIVERSITY COURSE, HAS RESEARCH EXPERIENCE OF TWO YEARS OF MORE, AND IS CONDUCTING RESEARCH ON A SPECIFIC THEME).

10. ELECTRICAL MACHINERY INDUSTRY, CHEMICAL INDUSTRY, AND TRANSPORTATION MACHINERY INDUSTRY ACCOUNTED FOR 60 PERCENT OF TOTAL R&D EXPENDITURE. ELECTRICAL MACHINERY INDUSTRY LED OTHER TYPES OF INDUSTRY IN THE RATIO OF RESEARCH SPENDING TO SALES,

WHICH WAS 3.7 PERCENT.

11. IN PRIVATE INDUSTRY, DEVELOPMENT RESEARCH ACCOUNTED FOR 76 PERCENT OF TOTAL RESEARCH SPENDING, BASIC RESEARCH AND APPLIED RESEARCH ACCOUNTED FOR 5 PERCENT AND 19 PERCENT RESPECTIVELY.

12. NUMBER OF JAPAN'S TECHNOLOGY EXPORT CONTRACTS TOTALED 1,811 IN JFY 1975, AN INCREASE OF 27 PERCENT OVER PREVIOUS YEAR, AND THAT OF TECHNOLOGY IMPORT CONTRACTS TOTALED 6,766, AN INCREASE OF 16 PERCENT. A SHARP INCREASE IN TECHNOLOGY EXPORTS WAS DUE TO INCREASED DEMAND FROM SOUTHEAST ASIA. PRINCIPAL COUNTRIES TO WHICH JAPANESE TECHNOLOGY WAS EXPORTED WERE U.S. (YEN 6.9 BILLION), BRAZIL (YEN 5.1 BILLION), AND INDONESIA (YEN 4.8 BILLION) AND THOSE FROM WHICH TECHNOLOGY WAS IMPORTED WERE U.S. (YEN 106.7 BILLION), WEST GERMANY (YEN 21.2 BILLION); AND UK (YEN 11.6 BILLION).

13. SURVEY COVERED COMPANIES CAPITALIZED AT MORE THAN YEN 3 MILLION AND CHARTERED CORPORATIONS; NATIONAL, PREFECTURAL AND PRIVATE RESEARCH LABORATORIES; AND NATIONAL AND PRIVATE UNIVERSITIES AND COLLEGES.

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PAGE 03 TOKYO 00044 02 OF 02 040659Z

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Message Attributes

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Review Markings:
Margaret P. Grafeld
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